

**METHODS AND SYSTEMS FOR DISTRIBUTED CACHING IN PRESENCE OF  
UPDATES AND IN ACCORDANCE WITH HOLDING TIMES**

**Abstract of the Disclosure**

Techniques for improved cache management including cache replacement are provided. In one aspect, a distributed caching technique of the invention comprises the use of a central cache and one or more local caches. The central cache communicates with the one or more local caches and coordinates updates to the local caches, including cache replacement. The invention also provides techniques for adaptively determining holding times associated with data storage applications such as those involving caches.

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